

6. The method according to claim 1, wherein
  - said vacuum level in said space is set at start of milking.
7. The method according to claim 1, wherein
  - said vacuum level in said space is set dynamically during milking.
8. The method according to claim 1, wherein
  - said milking machine comprises an animal identification system and a computer storing individual animal related milking parameters, and comprising the step of:
    - setting said vacuum level in said space individually for each animal being milked by said milking machine, or individually for each udder quarter for each animal being milked by said milking machine.
9. The method according to claim 1, wherein
  - said milking machine comprises vacuum difference measuring means, provided to measure the vacuum difference between the lower end of said teat cup liner and said space, and comprising the step of:
    - adjusting said vacuum level in said space during milking in dependence of at least said measured vacuum difference.
10. The method according to claim 1, wherein
  - said vacuum level in said space is set to a first value during a first part of said milking and to a second value during a second part of said milking.
11. The method according to claim 1, wherein
  - said vacuum level in said space is set so that an increased vacuum difference is achieved between said space and said teat cup liner lower end for animals

having a higher milk flow than the average milking animal.

12. The method according to claim 1, wherein  
- said teat cup shell or teat cup liner comprises a  
5 sensor for sensing vacuum levels in said space.

13. A milking machine comprising at least a first teat cup comprising a teat cup shell and a teat cup liner, said teat cup liner comprises a lower end connected to a milking vacuum source for drawing milk from said milking animal, and a top end forming a space and an teat entrance in which a teat of a milking animal is to be introduced, said teat cup liner further comprises an inlet to said space connected to a source,  
**characterised by**

10 15 -control means controlling the vacuum in said space in relation to a milking criteria of said animal.

14. The milking machine according to claim 13, comprising  
- animal identification means provided to detect the identity of a milking animal and relate said identity to  
20 at least one milking criteria.

15. The milking machine according to claim 13, wherein  
- said vacuum difference is dynamically varied during the milking process depending upon the momentary milk flow.

16. The milking machine according to claim 13, wherein  
25 - said milking criteria is the expected time to finish the milking for the particular udder quarter being milked.

17. The milking machine according to claim 13, wherein  
- said milking criteria is the expected milk yield.

18. The milking machine according to claim 13, wherein  
- said milking machine comprises one teat cup for each  
udder quarter to be milked, and  
- said control means is provided to set the vacuum level  
in said space in each teat cup so that all udder quarters  
finish milking simultaneously.

19. The milking machine according to claim 13, wherein  
- said vacuum level in said space is set at start of  
milking.

10 20. The milking machine according to claim 13, wherein  
- said vacuum level in said space is set dynamically  
during milking.

15 21. The milking machine according to claim 13, wherein  
- said milking machine comprises vacuum difference  
measuring means, provided to measure the vacuum  
difference between the lower end of said teat cup liner  
and said space, and  
- said control means is provided to adjust said vacuum  
level in said space during milking in dependence of at  
20 least said measured vacuum difference.

22. The milking machine according to claim 13, wherein  
- said vacuum level in said space is set to a first value  
during a first part of said milking and to a second value  
during a second part of said milking.

25 23. The milking machine according to claim 13, wherein  
- said vacuum level in said space is set so that an  
increased vacuum difference is achieved between said  
space and said teat cup liner lower end for animals  
having a higher milk flow than the average milking  
30 animal.

24. The milking machine according to claim 13, wherein  
- said teat cup shell or teat cup liner comprises a  
sensor for sensing vacuum levels in said space.